

FIG.2a

PRIOR ART

MODE	MODULATION	CODE RATE	PHYSICALLAYER BIT RATE
1	BPSK	1/2	6 Mbps
2	BPSK	3/4	9 Mbps
3	QPSK	1/2	12 Mbps
4	QPSK	3/4	18 Mbps
5	16 QAM	9/16	27 Mbps
6	16 QAM	3/4	36 Mbps
7	64 QAM	3/4	54 Mbps

FIG.2b PRIOR ART

PARAMETER	SYMBOL	VALUE IN HIPERLAN/2
CARRIER FREQUENCY		5.2-5.8 GHz
CHANNEL FREQUENCY SPACING		20 MHz
SAMPLING RATE AFTER 64-POINT IFFT	1/T	20 MHz (= 1/(50ns))
FFT LENGTH		64
NUMBER OF USED SUBCARRIERS	NST	52
NUMBER OF DATA SUBCARRIERS	Nsn	48
NUMBER OF PILOT SUBCARRIERS	NSP	4
LENGTH OF CYCLIC PREFIX		16 SAMPLES, EQ. TO 0.8µs
OFDM SYMBOL PERIOD INCL. CYCLIC PREFIX		4µs

FIG.1b

PRIOR ART

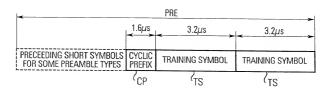


FIG.3

PRIOR ART

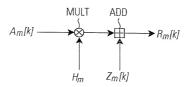


FIG.4a principle of the invention

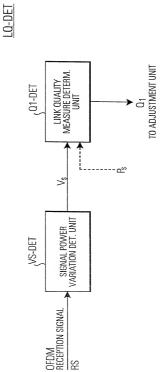
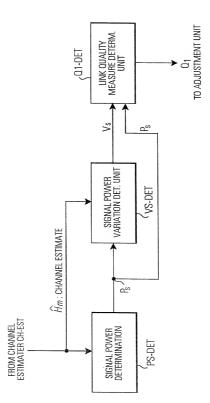


FIG.4b



 $FIG.5a\,$ principle of the invention

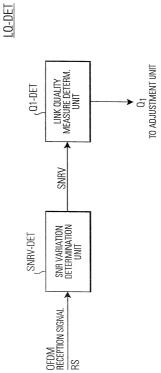
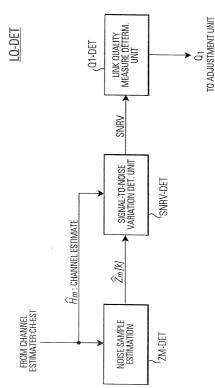
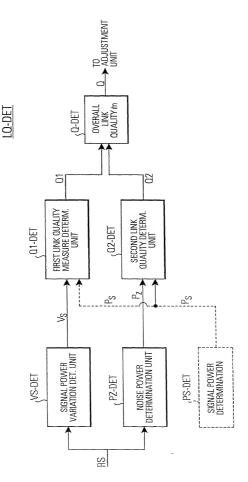


FIG.5b

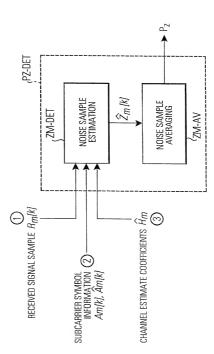




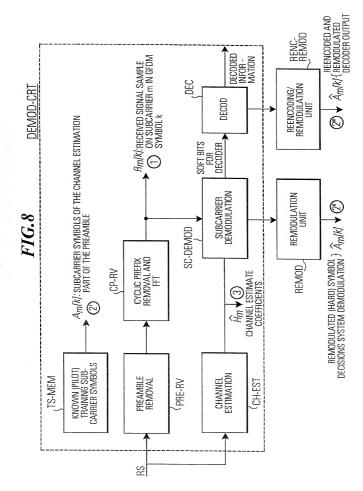


PRD

FIG.7



COSTONAL CONTROL



DASTOLS, OLDADI

FIG. 9

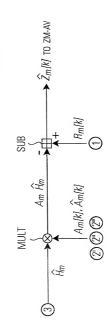


FIG.10

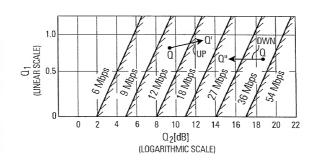


FIG.11

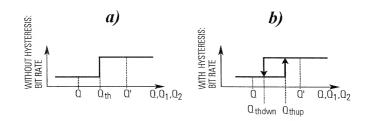


FIG.12

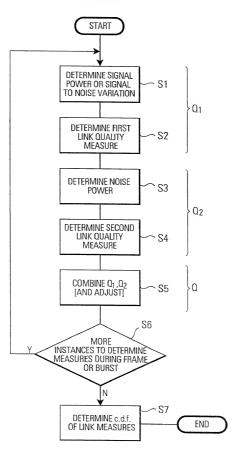


FIG.13a

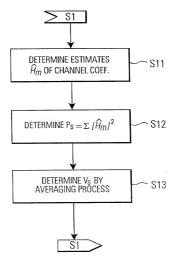


FIG.13b

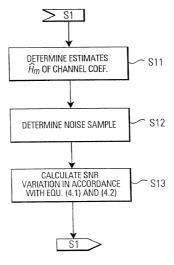


FIG.13c

